

Abstract of the Invention

A wireless communication device coupled to a wave antenna that provides greater increased durability and impedance matching. The wave antenna is a conductor that is curved in alternating sections. The wireless communication device is coupled to the wave antenna to provide wireless communication. The wireless communication device and wave antenna may be placed on objects, goods, or other articles of manufacture that are subject to forces such that the wave antenna may be stretched or compressed during the manufacture and/or use of such object, good or article of manufacture. The wave antenna, because of its curved structure, is capable of stretching and compressing more easily than other structures, reducing the wireless communication device's susceptibility to damage or breakage that might render the wireless communication device coupled to the wave antenna unable to properly communicate information wirelessly.